

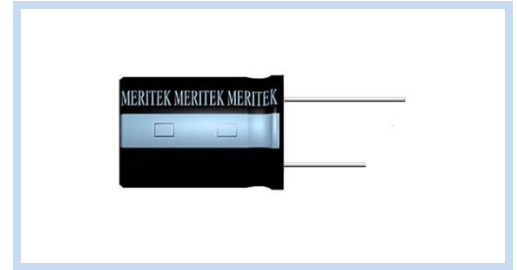
Aluminum Electrolytic Capacitors 1000Hrs 85°C Miniature 5mm

SS Series

MERITEK

FEATURE

- Operating Temperature: -40°C ~ +85°C
- Load Life of 1000 Hours at +85°C
- General Purposes Series with 5mm Height Series



SPECIFICATIONS

Item	Characteristic							
Operation Temperature Range	-40°C ~ + 85°C							
Rated Working Voltage	4 ~ 50VDC							
Capacitance Tolerance)	±20% (M) at 120Hz 20°C							
Leakage Current at 20°C	I ≤0.01CV or 3 (μA) *Whichever is greater after 2 minutes				I: Leakage Current (μA) C: Capacitance (μF) V: Working Voltage (V)			
Surge Voltage at 20°C	Rated Voltage (V)	4	6.3	10	16	25	35	50
	Surge Voltage (V)	5	8	13	20	32	44	63
Dissipation Factor-tan δ, at 120Hz 20°C	Rated Voltage (V)	4	6.3	10	16	25	35	50
	tan δ max	0.35	0.24	0.20	0.16	0.14	0.12	0.10
Low Temperature Stability	Impedance ratio at 120Hz							
	Rated Voltage (V)	4	6.3	10	16	25	35	50
	-25°C / +20°C	7	4	3	2	2	2	2
	-40°C / +20°C	15	8	6	4	4	3	3
Load Life	After 1000 hours application of W.V. and +85°C ripple current value, the capacitor shall meet the following limits. (DC + ripple peak voltage ≤ rate working voltage)							
	Capacitance Change	≤ ±20% of initial value						
	Dissipation Factor	≤ 200% of initial specified value						
	Leakage current	≤ initial specified value						
Shelf Life	At + 85°C no voltage application after 1000 hours the capacitor shall meet the limits for load life characteristics. (with voltage treatment)							

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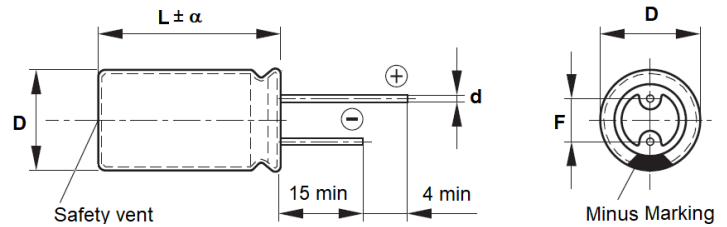
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DIMENSION

Unit: mm

D+0.5(max)	4	5	6.3	8
F±0.5	1.5	2.0	2.5	2.5
d±0.05	0.45	0.45	0.45	0.45
α	1.0	1.0	1.0	1.0



CASE SIZE AND MAX RIPPLE CURRENT

Capacitance		4VDC (0G)		6.3VDC (0J)		10VDC (1A)		16VDC (1C)	
		DxL	RC	DxL	RC	DxL	RC	DxL	RC
μF	Code	(mm)	mA(rms)	(mm)	mA(rms)	(mm)	mA(rms)	(mm)	mA(rms)
1.0	1R1								
2.2	2R2								
3.3	3R3								
4.7	4R7						→	4x5	16
6.8	6R8				→	4x5	17	4x5	19
10	100		→	4x5	19	4x5	21	4x5	24
15	150		→	4x5	24	4x5	26	5x5	33
22	220	4x5	24	4x5	29	4x5(5x5)	31(36)	5x5	40
33	330	4x5	29	4x5(5x5)	35(40)	4x5(5x5)	38(44)	5x5(6.3x5)	49(55)
47	470	4x5	35	5x5	48	5x5(6.3x5)	50(60)	6.3x5	65
68	680	5x5	47	6.3x5	65	6.3x5	70	6.3x5	80
100	101	6.3x5	65	6.3x5	80	6.3x5(8x5)	90(100)	6.3x5(8x5)	100(110)
220	221	6.3x5	100	8x5	140	8x5	150		
330	331	8x5	140	8x5	170				

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CASE SIZE AND MAX RIPPLE CURRENT

Capacitance		25VDC (1E)		35VDC (1V)		50VDC (1H)	
		DxL	RC	DxL	RC	DxL	RC
µF	Code	(mm)	mA(rms)	(mm)	mA(rms)	(mm)	mA(rms)
1.0	1R1				→	4x5	9
2.2	2R2				→	4x5	14
3.3	3R3				→	4x5	17
4.7	4R7	4x5	17	4x5	19	4x5	20
6.8	6R8	4x5	21	5x5	26	6.3x5	32
10	100	4x5	25	5x5	31	6.3x5	39
15	150	5x5	35	6.3x5	44	6.3x5	48
22	220	5x5(6.3x5)	43(49)	6.3x5	55	6.3x5(8x5)	60(70)
33	330	6.3x5	60	6.3x5(8x5)	65(75)	8x5	85
47	470	6.3x5(8x5)	70(85)	8x5	90		
68	680	8x5	100				
100	101	8x5	120				

Note:

1. Max ripple current: mA (rms) at 85°C. 120Hz
2. All blank voltage on sleeve marking is the same voltage as "→" point to

PART NUMBERING SYSTEM

SS (1) 1H (2) 100 (3) M (4) F (5) 050 (6) A (7) B (8)

No	Item	Code	Description	Series Reference
(1)	Meritek Series	SS	Aluminum Electrolytic Capacitors	Miniature Sized 5mm Height, 1000Hrs 85°C
(2)	Rated Voltage Code	1H	50V:50V	DC working voltage, See Table Below
(3)	Capacitance	100	100:10µF	First two digit: significant, Third: Multiplier
(4)	Tolerance	M	M: ± 20%	-20% ~ +20%
(5)	Case Diameter Code	F	F: 6.3 mm	See Table Below
(6)	Case Height	050	050: 5.0 mm	Third digit denotes the first decimal place
(7)	Package	A	A: Tape & Ammo	R: Tape & Reel, Blank : Bulk
(8)	Taping Pitch Code	B	B: 2.0 mm	See Table Below, Blank: Bulk

Voltage	4	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450	500
Code	0G	0J	1A	1C	1E	1V	1H	1J	2A	2C	2D	2E	2V	2G	2W	2H

Diameter	4	5	6.3	8	10	12.5	14.5	16	18	20	22	25
Code	D	E	F	H	J	K	U	L	M	N	P	Q

Pitch	1.5	2	2.5	3.5	5	7.5
Code	A	B	C	D	E	F

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LEGACY PART NUMBERING SYSTEM

SS 50V 100 M TA 65
(1) (2) (3) (4) (5) (6)

No	(1)	(2)	(3)	(4)	(5)	(6)
Item	Meritek Series	Rated Voltage	Capacitance	Tolerance	Package	Case Size

*Specifications subject to change without notice.